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(54) DISPLAY DEVICE FOR COINCIDENCE OF EYES OF PHOTOGRAPHED HUMAN FIGURE

(57)Abstract:

PURPOSE: To provide a display device for coincidence of eyes of photographed human figures to secure the coincidence between the eyes of a photographed human figure and those of a counter human figure.

CONSTITUTION: A photographing subject human figure 31 is photographed by the visible and infrared rays around the face of the figure 31, and the contours of eyelids of the figure 31 are extracted out of a visible ray photographed image formed on an image sensor by an eyelid contour/eye tail-eye detecting part 19. At the same time, the positions of pupils are extracted out of an infrared ray photographed image formed on an image sensor 10 by a pupil coordinate detecting part 17. Then the three-dimensional models of eyeballs of the figure 31 are generated based on the eyelid contours, the pupil positions, and the distance from the figure 31. Meanwhile the offset rotational angle covering the pupil positions through the center of the eyelid contours is detected based on the eyelid contours and the pupil positions. This detected rotational angle is given to the eyeballs of the three-dimensional model. Then the three-dimensional model pupil parts, the iris parts, and the scler parts of the eyeballs are produced in the computer graphics by an image synthesization processing part 21 and then synthesized with replacement of the images formed in the eyelid contour parts of the visible ray photographed image.

